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and said culturing provides for expression of the immunoglobulin light and heavy chains; and  
harvesting specific antigen-binding antibody from culture supernatant, which antibody  
specifically binds an antigen of interest.

37. (new) The method of Claim 36, wherein each of said first and second signal sequences is  
a yeast  $\alpha$ -factor signal sequence.

38. (new) The method of Claim 37, wherein each of said first and second signal sequences is  
a *Saccharomyces cerevisiae*  $\alpha$ -factor signal sequence.

39. (new) The method of Claim 36, wherein said *Pichia* is *Pichia pastoris*.

40. (new) The method of Claim 39, wherein said *Pichia pastoris* is *Pichia* strain SMD1168.

41. (new) The method of Claim 36, wherein said antibody specifically binds dioxin.

42. (new) The method of Claim 36, wherein each of said first and second promoters is an  
inducible promoter.

43. (new) The method of Claim 42, wherein each of said first and second promoters is an  
alcohol oxidase promoter.

44. (new) The method of Claim 43, wherein said each of first and second promoters is a  
*Pichia* alcohol oxidase promoter.

45. (new) The method of Claim 36, wherein the antibody is a mouse antibody, a humanized  
mouse antibody, or a human antibody.

46. (new) The method of Claim 36, wherein the antibody is recovered from the culture  
supernatant at more than about 10mg/l.